IPC7 C08F 4/643, C08F 4/614, B01J 31/38, B01J 31/00

According to International Patent Classification (IPC) or to both national classification and IPC

. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 C08F 4/643, C08F 4/614, B01J 31/38, B01J 31/00

CLASSIFICATION OF SUBJECT MATTER

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Korean Patents and applications for inventions since 1975

Electronic data base consulted during the intertnational search (name of data base and, where practicable, search terms used) CA-on CD, PAJ, KIPASS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Α	US 6,399,531 B1(UNION CARBIDE CHEM PLASTIC) 04June 2002 see the whole documents	1-4
A	US 6,323,293 B1(Fina Technology, Inc.) 27 November 2001 see the whole documents	1-4
Α	US 4,634,746 A (Bradly P.Etherton, Houston; Malcolm J.Kaus, Humble, both of Tex.) 06 January 1987 see the whole documents	1-4
A	JP 11-246620 A (TOHO TITANIUM CO LTD) 14 September 1999 see the whole documents	1-4
A	EP0747401 A1 (FINA TECHNOLOGY) 11 December 1996 see the whole documents	1-4

		Further documents	are listed in the	continuation	of Box C.
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X | See patent family annex.

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Date of the actual completion of the international search

Date of mailing of the international search report

10 DECEMBER 2004 (10.12.2004)

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No. PCT/KR2004/002127

Patent document cited in scarch report	Publication date	Patent family member(s)	Publication date
US6399531B1	04.06.2002	AU2601501A US639953181 W00148038A1	09.07.200 04.06.200 05.07.200
US 632329381	27.11.2001	EP860452A1 JP10251330A2	26.08.199 22.09.199
US4634746A	06.01.1987	None	
JP 11-246620 A	14.09.1999	US6200921BA W09943718A1 EP978520A1 EP978520A4	13.03.200 02.09.199 09.02.200 18.12.200
EP0747401A1	11.12.1996	DE69615919D1 DE69615919T2 EP0747401A1 ES2164189T3 JP9104706A	22.11.200 20.06.200 11.12.199 16.02.200 22.04.199